

Appl. No. 09/751,645
Amdt. dated September 3, 2003
Reply to Office action of June 3, 2003

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims

Claim 1 (currently amended): An advancing power saw for cutting metal objects, said saw comprising:

a platform;

a rotatable member attached to said platform and enabling the rotation of said platform;

a support plate movably disposed on said platform;

a saw blade assembly disposed upon said support plate, said saw blade assembly including a saw blade coupled with a motor and associated with an oscillating mechanism; and

a balancing apparatus operatively associated with said support plate and arranged to move in a direction opposite to the direction said support plate moves, said support plate mounted atop said balancing apparatus.

Claim 2 (withdrawn): The power saw of claim 1 further comprising an advancing mechanism, said advancing mechanism advancing and retracting said support plate.

Claim 3 (withdrawn): The power saw of claim 1 further comprising a plurality of rails, at least one of said plurality of rails operatively connected to said support plate, and at least one of said plurality of rails operatively connected to said counterweight, whereby said rails are adapted to actuate in opposite directions.

Claim 4 (withdrawn): The power saw of claim 3 wherein counterweight has a sufficient mass in relation to said power saw to dampen vibrations in said power saw.

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Claim 5 (withdrawn): The power saw of claim 3 wherein counterweight has a sufficient mass in relation to said power saw to substantially equalize pressure on said saw blade.

Claim 6 (withdrawn): The power saw of claim 3 further comprising at least one hydraulic cylinder associated with said rails.

Claim 7 (withdrawn): The power saw of claim 3 further comprising at least one hydraulic cylinder associated with said counterweight and at least one hydraulic cylinder associated with said support plate.

Claim 8 (withdrawn): The power saw of claim 1 wherein said oscillating mechanism further comprises an oscillating motor, said oscillating motor operatively associated with said oscillating mechanism by a connecting arm.

Claim 9 (canceled)

Claim 10 (canceled)

Claim 11 (withdrawn): The power saw of claim 9, further comprising a plurality of rails, at least one of said plurality of rails operatively connected to said support plate, wherein said pivot support is disposed beneath said rails.

Claim 12 (withdrawn): The power saw of claim 9 wherein said pivot support extends above said rails.

Claim 13 (withdrawn): The power saw of claim 1 further comprising a pulley assembly, said pulley assembly coupled to said counterweight and said support plate, whereby said pulley assembly advances said counterweight in a direction opposite of said support plate.

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Claim 14 (currently amended): An advancing power saw for cutting metal objects, said saw comprising:

a platform having a movable support plate;

a rotatable member attached to said platform and enabling the rotation of said platform;

oscillating saw means for cutting the metal objects, said oscillating saw means disposed on said platform; and

balancing means for dampening vibration of said oscillation saw means, said support plate positioned atop said balancing means.

Claim 15 (original): The power saw of claim 14 wherein said oscillating saw means includes a saw blade, said saw blade rotatably supported atop said support plate.

Claim 16 (previously amended): The power saw of claim 14 further comprising at least one pivot support wherein said saw support plate is supported above said platform by said pivot support.

Claim 17 (withdrawn): The power saw of claim 16, further comprising a plurality of rails, at least one of said plurality of rails operatively connected to said support plate, wherein said pivot support is disposed beneath said rails.

Claim 18 (withdrawn): The power saw of claim 16 wherein said pivot support extends above said rails.

Claim 19 (withdrawn): The power saw of claim 14 wherein said oscillating saw means is operatively associated with an oscillating motor, said oscillating saw means and said oscillating motor coupled by a connecting arm.

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Claim 20 (withdrawn): The power saw of claim 14 wherein said oscillating saw means further comprises an advancing mechanism, said advancing mechanism operatively associated with said support plate, whereby said advancing mechanism advances and retracts said saw blade.

Claim 21 (withdrawn): The power saw of claim 14 wherein said balancing means is operatively associated with said support plate and arranged to move in a direction opposite to the direction said support plate moves.

Claim 22 (withdrawn): The power saw of claim 14 wherein said balancing means further comprises a plurality of rails, at least one of said plurality of rails operatively connected to said saw support plate, and at least one of said plurality of rails operatively connected to said balancing means, whereby said rails are adapted to actuate in opposite directions.

Claim 23 (withdrawn): The power saw of claim 22 further comprising at least one hydraulic cylinder associated with said rails.

Claim 24 (withdrawn): The power saw of claim 22 further comprising at least one hydraulic cylinder associated with said counterweight and at least one hydraulic cylinder associated with said support plate.

Claim 25 (original): The power saw of claim 14 wherein said balancing means supports at one end a counterbalance, whereby said counterbalance dampens vibrations in said power saw.

Claim 26 (original): The power saw of claim 25 wherein said counterbalance is a weight related to the vibrations in said power saw.

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Claim 27 (original): The power saw of claim 25 wherein said counterbalance substantially equalizes pressure on said saw blade.

Claim 28 (withdrawn): The power saw of claim 14 wherein said oscillating saw means further comprises a pulley assembly, said pulley assembly coupled to said balancing means and to said support plate, whereby said pulley assembly advances said balancing means in a direction opposite of said support plate.

Claim 29 (previously presented): The power saw of claim 1 wherein said balancing apparatus is provided with a counterweight.

Claim 30 (previously presented): The power saw of claim 29 further comprising at least one pivot support disposed at one end of said platform.

Claim 31 (previously presented): The power saw of claim 30 wherein said saw support plate and said counterweight pivot about said pivot support.

Claim 32 (new): The power saw of claim 31 wherein said pivot support includes
an aperture; and
a beam having an end rotatably disposed in said aperture to enable said beam to rotate.

Claim 33 (new): The power saw of claim 32 wherein said beam supports said balancing apparatus.

Claim 34 (new): An advancing power saw for cutting metal objects, said saw comprising:
a platform;
a support plate movably disposed on said platform;

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a saw blade assembly disposed upon said support plate, said saw blade assembly including a saw blade coupled with a motor and associated with an oscillating mechanism including a plate member, whereby the movement of said plate member generates the oscillation of said saw blade assembly; and

a balancing apparatus operatively associated with said support plate and arranged to move in a direction opposite to the direction said support plate moves, said support plate mounted atop said balancing apparatus.

Claim 35 (new): The power saw of claim 34 further comprising an arm member, said plate member pivotally connected to said arm member.

Claim 36 (new): The power saw of claim 35 further comprising an oscillating motor operatively associated with said oscillating mechanism by said arm member.

Claim 37 (new): The power saw of claim 34 wherein said saw blade is rotatably supported atop said support plate.

Claim 38 (new): The power saw of claim 34 further comprising at least one pivot support, said pivot support supporting said support plate above said platform.

Claim 39 (new): The power saw of claim 38 wherein said balancing apparatus supports at one end a counterbalance.

Claim 40 (new): The power saw of claim 39 wherein said support plate and said counterbalance pivot about said pivot support.

Claim 41 (new): An advancing power saw for cutting metal objects, said saw comprising:
a platform;

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a support plate movably disposed on said platform;
a saw blade assembly disposed upon said support plate, said saw blade assembly including a saw blade coupled with a motor and associated with an oscillating mechanism;
a balancing apparatus operatively associated with said support plate and arranged to move in a direction opposite to the direction said support plate moves, said support plate mounted atop said balancing apparatus; and
at least one pivot support secured to said platform and supporting both said support plate and said balancing apparatus above said platform, both said support plate and said balancing apparatus pivotally associated with said pivot support.

Claim 42 (new): The power saw of claim 41 wherein said pivot support includes an aperture.

Claim 43 (new): The power saw of claim 42 wherein said pivot support includes a beam having an end rotatably disposed in said aperture to enable said beam to rotate.

Claim 44 (new): The power saw of claim 43 wherein said beam supports said balancing apparatus.

Claim 45 (new): The power saw of claim 1 further comprising a fixed member, said rotatable member rotatably mounted to said fixed member.